

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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| In re Application of | : | M.A. Kaczmarek et al. |
| Serial No. | : | Unknown |
| Filed | : | Herewith |
| Art Unit | : | Unknown |
| Examiner | : | Unknown |
| Title | : | COPY METHOD SUPPLEMENTING OUTBOARD DATA COPY WITH PREVIOUSLY INSTITUTED COPY-ON-WRITE LOGICAL SNAPSHOT TO CREATE DUPLICATE CONSISTENT WITH SOURCE DATA AS OF DESIGNATED TIME |
| Atty. Docket No. | : | TUC9-2001-0101-US1 (IBMT-074) |

Honorable Commissioner of
Patents and Trademarks
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Please amend the above-identified application as follows:

IN THE SPECIFICATION

Delete the paragraph beginning on page 3, lines 6-16.

On page 3, between lines 6-16, insert the following paragraph:

-- One known technique to obtain a consistent copy is to make a "physical snapshot" of the source data. In this technique, a mirrored copy (not shown) of the source data is maintained at all times. Then, at the instant when the physical snapshot is desired, the relationship between source and mirrored copy is broken. The mirrored copy thus reflects the content of the source data as of that moment in time. With this approach, an outboard data copy can be created using traditional methods, namely, by copying the (previously mirrored) physical copy. This is possible without disturbing the original data because the physical copy is now disconnected from the source data. Moreover, after creating the physical snapshot, the original file system and physical snapshot can be accessed independently. One disadvantage, however, is that well before the mirrored copy is ever needed, it occupies a significant amount of storage space, namely the same size as the source data.--

Delete the paragraph beginning on page 15, lines 9-15.

On page 15, between lines 9-15, insert the following paragraph:

-- In step 604, the agent 301 invokes the bridge 314 to physically copy the source data 310a to the physical copy 316a. Along with each item of source data, step 604 copies the data item's address, relative position, or other locator. This is an outboard data copy since it is performed by a processing entity separate from the application server 302. The bridge 314 copies each block of source data without regard for any update activity from the application 302a (and hosts 360) that has occurred after the logical snapshot was taken. As an example, step 604 may be performed using the SCSI-3 XCOPY command.--

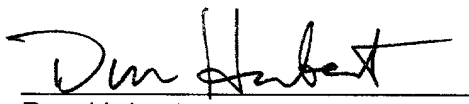
REMARKS

This preliminary amendment is presented prior to the first office action in the above-captioned application, to correct a number of inadvertent clerical errors. By the amendment, the specification has been amended. Claims 1-17 are presently in the application. Applicants request favorable consideration and allowance of all claims in this application.

If any fees are required by this submission, an appropriate fee submittal sheet is enclosed herewith. If fees are required yet this sheet is inadvertently missing, or the fees are incorrect in amount, please charge the charge the required fees (or credit any overpayment) to Deposit Account No. 09-0449.

Respectfully submitted,

Date: 21 JAN
2002


Dan Hubert
Reg. No. 33,906
USPTO Customer 23 686

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

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